RECEIVED
CENTRAL FAX CENTER
OCT 1 6 2006

In the claims:

- 1. (Currently Amended) A polyamide composition consisting essentially of a slow crystallizing blend of (i) an aliphatic, crystallizable polyamide homopolymer, polyamide copolymer or polyamide nanocomposite; (ii) a crystallizable polyamide having a repeating unit structure which eemprises consists essentially of either 1) IIN(CH₂)_nΛr(CII2)_n NHCO-Z-CO –; or III) HN(CH₂)_nΛrCO –; or a combination thereof; wherein n = 1 to 3; wherein Ar = an arylene group; and wherein Z = an alkylene group of C₄ to C₈ or an arylene group of C₆ to C₁₄; or eemprises consists essentially of II) PΛ-poly(hexamethylene terephthalamide)/poly(hexamethylene adipamide) copolymer, PΛ-poly(hexamethylene terephthalamide)/polycaprolactam copolymer or PΛ-caprolactam-naphthalene dicarboxylic acid copolyamide/poly(hexamethylene adipamide) copolymer; and (iii) a semi-aromatic, amorphous polyamide.
- 2. (Withdrawn and Currently Amended) The composition of claim 1 wherein (i) comprises a polyamide nanoclaynanocomposite.
- 3. (Withdrawn and Currently Amended) The composition of claim 2 wherein said nanoelaynanocomposite comprises montmorillonite.
- 4. (Original) The composition of claim 1 wherein said aliphatic, crystallizable polyamide homopolymer or polyamide copolymer comprises an aliphatic, crystallizable polyamide having a backbone structure of

- HN(CII₂)_nCO --

wherein n = 4 to 10.

5. (Withdrawn and Currently Amended) The composition of claim 1 wherein said aliphatic, crystallizable polyamide homopolymer or polyamide copolymer comprises an aliphatic, crystallizable polyamide nanocomposite having a polyamide backbone structure of

wherein n = 4 to 10 and wherein said nanocomposite comprises an exfoliated, platelet-type nanoclaynanocomposite.

- 6. (Withdrawn and Currently Amended) The composition of claim 5 wherein said nanocomposite comprises from more than 0 % to about 10 % by weight of said nanoclaynanocomposite.
- 7. (Withdrawn and Currently Amended) The composition of claim 5 wherein said exfoliated, platelet-type nanoelnynanocomposite is at least about 20 nm in length, at least about 20 nm in width and has a thickness of at least about 1 nm.
- 8. (Canceled)
- 9. (Previously Presented) The composition of claim 1 wherein said crystallizable polyamide (ii) comprises a crystallizable polyamide having a repeating unit structure which comprises:

 $-HN(CH_2)_nAr(CH_2)_nNHCO-Z-CO-;$

wherein n = 1 to 3; wherein Ar = an arylene group; and wherein Z = an alkylene group of C_4 to C_8 or an arylene group of C_6 to C_{14} .

10. (Previously Presented) The composition of claim 9 wherein said crystallizable polyamide (ii) is selected from the group consisting of PA-poly(mcta-xylylene adipamide), PA-poly(mcta-xylylene adipamide)/poly(para-xylylene adipamide) copolymer, PA-poly(metaxylene diamine terephthalamide) and PA-poly(metaxylene diamine terephthalamide)/poly(meta-xylylene adipamide) copolymer.

11-12. (Canceled)

13. (Previously Presented) The composition of claim 1 wherein said crystallizable polyamide (ii) comprises a crystallizable polyamide having a repeating unit structure which comprises:

-HN(CH₂)_nArCO -;

wherein n = 1 to 3; and wherein Ar = an arylene group.

14. (Previously Presented) The composition of claim 13 wherein said crystallizable polyamide (ii) is selected from the group consisting of poly(m-aminomethyl benzoic) acid and poly(2-aminomethyl, 6-naphthoic acid).

- 15. (Previously Presented) The composition of claim 1 wherein said crystallizable polyamide (ii) comprises a crystallizable polyamide having a repeating unit structure which comprises a combination of I and III.
- 16. (Original) The composition of claim 1 wherein said semi-aromatic, amorphous polyamide comprises a semi-aromatic, amorphous polyamide having a repeat unit structure of:

- HN(CH₂)_nNII-COArCO -

wherein n = 4 to 10 and Ar = a substituted or unsubstituted arylene group.

- 17. (Previously Presented) The composition of claim 1 wherein said semi-aromatic, amorphous polyamide comprises a polyamide selected from the group consisting of PA-poly(hexamethylene isophthalamide)/poly(hexamethylene terephthalamide) copolymer, PA-poly(hexamethylene isophthalamide), PA-polycaprolactam/poly(metaxylene diamine isophthalamide) copolymer, PA-polycaprolactam/poly(metaxylene diamine terephthalamide) copolymer and PA-poly(tolylene diisophthalamide).
- 18. (Previously Presented) The composition of claim 1 wherein said polyamide composition comprises from about 5 to 90 percent by weight of (i), from about 5 to about 90 percent by weight of (ii), and from about 5 to about 90 percent by weight of (iii) based on the total weight of the polyamide composition.
- 19. (Canceled)

- 20. (Previously Presented) The composition of claim 1 wherein said aliphatic, crystallizable polyamide homopolymer or polyamide copolymer comprises nylon 6.
- 21. (Previously Presented) The composition of claim 1 wherein said crystallizable polyamide (ii) comprises PA-poly(meta-xylylene adipamide).
- 22. (Previously Presented) The composition of claim 1 wherein said semi-aromatic, amorphous polyamide comprises PA-poly(hexamethylene isophthalamide)/poly(hexamethylene terephthalamide) copolymer.
- 23. (Previously Presented) The composition of claim 1 wherein said aliphatic, crystallizable polyamide homopolymer or copolymer (i) comprises nylon 6; said crystallizable polyamide (ii) comprises PA-poly(meta-xylylene adipamide); and said semi-aromatic, amorphous polyamide (iii) comprises PA-poly(hexamethylene isophthalamide)/poly(hexamethylene terephthalamide) copolymer.
- 24. (Withdrawn and Currently Amended) A multilayer film which comprises:
 a) at least one polyamide composition layer comprising consisting essentially of a slow crystallizing blend of (i) an aliphatic, crystallizable polyamide homopolymer, polyamide or copolymer or polyamide nanocompositenanoclay; (ii) a semi-aromatic, crystallizable polyamide having a repeating unit structure which consists essentially of either
- I) $HN(CH_2)_nAr(CH_2)_n$ NHCO-Z-CO –; or III) $HN(CH_2)_nArCO$ –; or a combination thereof; wherein n = 1 to 3; wherein Ar = an arylene group; and wherein Z = an alkylene group of C_4 to C_3 or an arylene group of C_6 to C_{14} or consists essentially of II) PA-poly(hexamethylene

terephthalamide)/poly(hexamethylene adipamide) copolymer, PA-poly(hexamethylene terephthalamide)/polycaprolactam copolymer or PA-caprolactam-naphthalene dicarboxylic acid copolyamide/poly(hexamethylene adipamide) copolymer; and

- (iii) a semi-aromatic, amorphous polyamide; and
- b) at least one thermoplastic polymer layer on one or both sides of said at least one polyamide composition layer.
- 25. (Withdrawn) The multilayer film of claim 24 wherein said thermoplastic polymer comprises polyethylene tercphthalate.
- 26. (Withdrawn) The multilayer film of claim 24 wherein said thermoplastic polymer comprises a polyolefin or polyester.
- 27. (Withdrawn) The multilayer film of claim 24 wherein said aliphatic, crystallizable polyamide homopolymer or copolymer comprises nylon 6 or nylon 6 nanocomposite.
- 28. (Withdrawn and Currently Amended) The multilayer film of claim 24 wherein said semi-aromatic, crystallizable polyamide comprises PA-MXD6.
- 29. (Withdrawn) The multilayer film of claim 24 wherein said semi-aromatic, amorphous polyamide comprises PA-6I/6T.
- 30. (Withdrawn and Currently Amended) The multilayer film of claim 24 wherein said aliphatic, crystallizable polyamide homopolymer or copolymer comprises nylon 6 or nylon 6 nanocomposite; said semi-aromatic, crystallizable

polyamide comprises PA-MXD6; and said semi-aromatic, amorphous polyamide comprises PA-6I/6T.

- 31. (Withdrawn and Currently Amended) The multilayer film of claim 24 wherein said layered nanoelaynanocomposite comprises montmorillonite.
- 32. (Withdrawn) The multilayer film of claim 24 wherein said thermoplastic polymer layer and said at least one polyamide composition layer are attached to one another by coextrusion, lamination or coinjection.
- 33. (Withdrawn) The multilayer film of claim 24 comprising a thermoplastic polymer layer on both sides of said at least one polyamide composition layer.
- 34. (Withdrawn and Currently Amended) The multilayer film of claim 24 wherein said aliphatic, crystallizable polyamide homopolymer or copolymer comprises nylon 6 or nylon 6 nanocomposite; said semi-aromatic, crystallizable polyamide comprises PA-MXD6; said semi-aromatic, amorphous polyamide comprises PA-6l/6T; and said thermoplastic polymer layer comprises polyethylene terephthalate.
- 35. (Withdrawn) The multilayered film of claim 24 which has an oxygen transmission rate of about 2 cc.mil/100 in²/day or less.
- 36. (Withdrawn) The multilayered film of claim 24 which has a carbon dioxide (CO₂) transmission rate of less than about 10 cc.mil/100in₂/ day at 80 % relative humidity in air.

- 37. (Withdrawn) An article formed from the multilayered film of claim 24.
- 38. (Withdrawn) The article of claim 37 which is a bottle.
- 39. (Withdrawn and Currently Amended) A process for producing a multilayer article which comprises:
- (a) melting a polyamide blend comprising consisting essentially of a slow crystallizing blend of (i) an aliphatic, crystallizable polyamide homopolymer. polyamide or copolymer, or polyamide nanocompositenanoclay; (ii) a somiaromatic, crystallizable polyamide having a repeating unit structure which consists essentially of either I) - HN(CH₂)_nAr(CH₂)_n NHCO-Z-CO -; or III) - $HN(CH_2)_nArCO$ -; or a combination thereof; wherein n = 1 to 3; wherein Ar = anarylene group; and wherein Z = an alkylene group of C_4 to C_8 or an arylene group of C₆ to C₁₄ or consists essentially of II) PA-poly(hexamethylene terephthalamide)/poly(hexamethylene adipamide) copolymer, PApoly(hexamethylene terephthalamide)/polycaprolactam copolymer or PAcaprolactam-naphthalene dicarboxylic acid copolyamide/poly(hexamethylene adipamide) copolymer; and (iii) a semi-aromatic, amorphous polyamide; (b) separately melting a thermoplastic polymer;
- (c) coextruding, casting, blowing, thermoforming, blow molding or co-injecting the polyamide blend and thermoplastic polymer composition into a multilayer article; and
- (d) cooling the article.
- 40. (Withdrawn) The process of claim 39 wherein said article is in the form of a film, a bottle or a container.

- 41. (Withdrawn) The process of claim 39 wherein said article is a film which is subsequently oriented.
- 42. (Withdrawn and Currently Amended) A process for producing a multilayer article which comprises:
- (a) melting a polyamide blend emprising consisting essentially of a slow crystallizing blend of (i) an aliphatic, crystallizable polyamide homopolymer, polyamide or copolymer, or polyamide nanocompositenanoclay; (ii) a semi-aromatic, crystallizable polyamide having a repeating unit structure which consists essentially of either I) IIN(CH₂)_nAr(CH₂)_nNHCO-Z-CO –; or III) IIN(CH₂)_nArCO –; or a combination thereof; wherein n = 1 to 3; wherein Ar = an arylene group; and wherein Z = an alkylene group of C₄ to C₈ or an arylene group of C₆ to C₁₄; or consists essentially of II) PA-poly(hexamethylene terephthalamide)/poly(hexamethylene adipamide) copolymer, PA-poly(hexamethylene terephthalamide)/polycaprolactam copolymer or PA-caprolactam-naphthalene dicarboxylic acid copolyamide/poly(hexamethylene adipamide) copolymer; and (iii) a semi-aromatic, amorphous polyamide;
- (b) separately melting a thermoplastic polymer;
- (c) co-injecting molding the mixture and thermoplastic polymer composition into a multilayer pre-form;
- (d) reheating the pre-form; and
- (e) blow molding the pre-form into a multilayer article.